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SEQUENCE LISTING

<110> De Leys, Robert J.
Zheng, Jian

<120> PEPTIDES FOR THE DETECTION OF HIV-1 GROUP O

<130> CDS-207

<140> Not Assigned

<141> 1999-11-04

<160> 69

<170> PatentIn Ver. 2.0

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Pro Leu Arg Asn Glu Phe Lys Tyr Phe Gln Arg Met Thr Thr Thr Ser
 35 40 45

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Ser Val Glu Gly Lys Gln Asn Leu Val Ile Met Gly Arg Lys Thr Trp
 50 55 60

Phe Ser Ile Pro Glu Lys Asn Arg Pro Leu Lys Asp Arg Ile Asn Ile
 65 70 75 80

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Val Leu Ser Arg Glu Leu Lys Glu Pro Pro Arg Gly Ala His Phe Leu
 85 90 95

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Ala Lys Ser Leu Asp Asp Ala Leu Arg Leu Ile Glu Gln Pro Glu Leu
 100 105 110

Ala Ser Lys Val Asp Met Val Trp Ile Val Gly Gly Ser Ser Val Tyr
 115 120 125

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Gln Glu Ala Met Asn Gln Pro Gly His Leu Arg Leu Phe Val Thr Arg
 130 135 140

Ile Met Gln Glu Phe Glu Ser Asp Thr Phe Phe Pro Glu Ile Asp Leu
 145 150 155 160

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Gly Lys Tyr Lys Leu Leu Pro Glu Tyr Pro Gly Val Leu Ser Glu Val
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Gln Glu Glu Lys Gly Ile Lys Tyr Lys Phe Glu Val Tyr Glu Lys Lys
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Gly Ser Arg Ser Ala Arg Leu Leu Leu Ser Gly Ile Val Gln Gln Gln
 195 200 205

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Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Met Leu Gln Leu
 210 215 220

Thr Ala Trp Gly Ile Lys Gln Leu Arg Ala Arg Leu Gln Ala Leu Glu
 225 230 235 240

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Val Ser Gln Asn Met Gly Ile Gly Lys Asn Gly Asp Leu Pro Trp Pro
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Pro Leu Arg Asn Glu Phe Lys Tyr Phe Gln Arg Met Thr Thr Thr Ser
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Ser Val Glu Gly Lys Gln Asn Leu Val Ile Met Gly Arg Lys Thr Trp
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Phe Ser Ile Pro Glu Lys Asn Arg Pro Leu Lys Asp Arg Ile Asn Ile
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Val Leu Ser Arg Glu Leu Lys Glu Pro Pro Arg Gly Ala His Phe Leu
 85 90 95

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Ala Lys Ser Leu Asp Asp Ala Leu Arg Leu Ile Glu Gln Pro Glu Leu
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Ala Ser Lys Val Asp Met Val Trp Ile Val Gly Gly Ser Ser Val Tyr
 115 120 125

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Ile Met Gln Glu Phe Glu Ser Asp Thr Phe Phe Pro Glu Ile Asp Leu
 145 150 155 160

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Gly Lys Tyr Lys Leu Leu Pro Glu Tyr Pro Gly Val Leu Ser Glu Val
 165 170 175

Gln Glu Glu Lys Gly Ile Lys Tyr Lys Phe Glu Val Tyr Glu Lys Lys
 180 185 190

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Gly Ser Arg Ser Ala Arg Leu Leu Leu Ser Gly Ile Val Gln Gln Gln
 195 200 205

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Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His Met Leu Gln Leu
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Thr Ala Trp Gly Ile Lys Gln Leu Arg Ala Arg Leu Gln Ala Leu Glu
 225 230 235 240

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	Lys	Ser	Leu	Glu	Asp	Ile	Trp	Asp	Asn	Met	Thr	Trp	Met	Gln	Trp	Asp
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	Gln	Gln	Val	Asn	Asn	Val	Ser	Ser	Ile	Ile	Tyr	Asp	Lys	Ile	Leu	Glu
			290				295					300				
15	Ala	Gln	Asp	Gln	Gln	Glu	Glu	Asn	Val	Arg	Glu	Leu	Leu	Glu	Leu	Asp
	305					310					315					320
	Lys	Trp	Ala	Ser	Leu	Trp	Asn	Trp	Phe	Asp	Ile	Thr	Asn	Trp	Leu	Trp
					325					330					335	
20	Tyr	Ile	Lys	Ile	Phe	Ile	Met	Ile	Val	Gly	Pro	Glu	Gln	Lys	Leu	Ile
				340					345					350		
	Ser	Glu	Glu	Asp	Leu	Asn	Ser	Ala	Val	Asp	His	His	His	His	His	His
25			355					360					365			
30	<210> 59 <211> 23 <212> PRT <213> Artificial Sequence															
35	<220> <223> Description of Artificial Sequence:HIV Consensus Sequence															
40	<400> 59 Asn Gln Gln Arg Leu Asn Ser Trp Gly Cys Lys Gly Arg Ile Ile Cys 1 5 10 15															
45	Tyr Thr Ser Ala Arg Trp His 20															
50	<210> 60 <211> 23 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence:HIV Consensus Sequence															

<400> 60
Xaa Gln Gln Arg Leu Asn Ser Trp Gly Cys Lys Gly Arg Ile Ile Cys
1 5 10 15
5 Tyr Thr Ser Ala Arg Trp His
20

10 <210> 61
<211> 23
<212> PRT
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15 <220>
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Sequence

20 <400> 61
Glu Gln Gln Arg Leu Asn Ser Trp Gly Cys Lys Gly Arg Ile Ile Cys
1 5 10 15
Tyr Thr Ser Ala Arg Trp His
20

25 <210> 62
<211> 28
<212> PRT
30 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:HIV Consensus
Sequence

35 <400> 62
Glu Thr Leu Met Gln Xaa Gln Gln Arg Leu Asn Ser Trp Gly Cys Lys
1 5 10 15

40 Gly Arg Ile Ile Cys Tyr Thr Ser Ala Arg Trp His
20 25

45 <210> 63
<211> 30
<212> PRT
<213> Artificial Sequence

50 <220>
<223> Description of Artificial Sequence:HIV Consensus
Sequence

<400> 63

Gly Arg Glu Thr Leu Met Gln Xaa Gln Gln Arg Leu Asn Ser Trp Gly
1 5 10 15

5 Cys Lys Gly Arg Ile Ile Cys Tyr Thr Ser Ala Arg Trp His
20 25 30

<210> 64

10 <211> 35

<212> PRT

<213> Artificial Sequence

<220>

15 <223> Description of Artificial Sequence:HIV Consensus
Sequence

<400> 64

20 Arg Ala Arg Leu Gln Ala Leu Glu Thr Leu Met Gln Xaa Gln Gln Arg
1 5 10 15

Leu Asn Ser Trp Gly Cys Lys Gly Arg Ile Ile Cys Tyr Thr Ser Ala
20 25 30

25 Arg Trp His
35

<210> 65

30 <211> 33

<212> PRT

<213> Artificial Sequence

<220>

35 <223> Description of Artificial Sequence:HIV Consensus
Sequence

<400> 65

40 Asp Gln Gln Val Asn Asn Val Ser Ser Ile Ile Tyr Asp Lys Ile Leu
1 5 10 15

Glu Ala Gln Asp Gln Gln Glu Glu Asn Val Arg Glu Leu Leu Glu Leu
20 25 30

45 Asp

<210> 66

50 <211> 220

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:HIV Consensus
Sequence

<400> 66

5	Ala Arg Leu Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn Leu Leu	1	5	10	15
	Arg Ala Ile Glu Ala Gln Gln His Met Leu Gln Leu Thr Ala Trp Gly	20	25	30	
10	Ile Lys Gln Leu Arg Ala Arg Leu Gln Ala Leu Glu Thr Leu Met Gln	35	40	45	
	Asn Gln Gln Arg Leu Asn Ser Trp Gly Cys Lys Gly Arg Ile Ile Cys	50	55	60	
15	Tyr Thr Ser Ala Arg Trp His Ala Ser Trp Ser Asn Lys Ser Leu Glu	65	70	75	80
	Asp Ile Trp Asp Asn Met Thr Trp Met Gln Trp Asp Gln Gln Val Asn	85	90	95	
20	Asn Val Ser Ser Ile Ile Tyr Asp Lys Ile Leu Glu Ala Gln Asp Gln	100	105	110	
	Gln Glu Glu Asn Val Arg Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser	115	120	125	
25	Leu Trp Asn Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys Ile	130	135	140	
	Phe Ile Met Ile Val Gly Gly Leu Val Gly Leu Arg Ile Val Phe Ala	145	150	155	160
30	Val Leu Ser Ile Val Asn Arg Val Arg Gln Gly Tyr Ser Pro Leu Ser	165	170	175	
	Leu Gln Thr Arg Pro Pro Val Pro Arg Gly Pro Asp Arg Pro Glu Gly	180	185	190	
35	Ile Glu Glu Glu Gly Gly Glu Arg Asp Arg Asp Thr Ser Gly Arg Leu	195	200	205	
	Val His Gly Phe Leu Ala Ile Ile Trp Val Asp Leu	210	215	220	

<210> 67

<211> 149

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:HIV Consensus

Sequence

<400> 67

Ala Arg Leu Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn Leu Leu
1 5 10 15

Arg Ala Ile Glu Ala Gln Gln His Met Leu Gln Leu Thr Ala Trp Gly
20 25 30

Ile Lys Gln Leu Arg Ala Arg Leu Gln Ala Leu Glu Thr Leu Met Gln
35 40 45

Asn Gln Gln Arg Leu Asn Ser Trp Gly Cys Lys Gly Arg Ile Ile Cys
50 55 60

Tyr Thr Ser Ala Arg Trp His Ala Ser Trp Ser Asn Lys Ser Leu Glu
65 70 75 80

Asp Ile Trp Asp Asn Met Thr Trp Met Gln Trp Asp Gln Gln Val Asn
85 90 95

Asn Val Ser Ser Ile Ile Tyr Asp Lys Ile Leu Glu Ala Gln Asp Gln
100 105 110

Gln Glu Glu Asn Val Arg Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
115 120 125

Leu Trp Asn Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys Ile
130 135 140

Phe Ile Met Ile Val
145

<210> 68

<211> 23

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 68

Asn Gln Gln Leu Leu Ser Leu Trp Gly Cys Lys Gly Lys Leu Val Cys
1 5 10 15

Tyr Thr Ser Val Lys Trp Asn
20

<210> 69

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HIV Consensus

Sequence

5 <400> 69
 Gly Arg Glu Thr Leu Met Gln Asp Gln Gln Arg Leu Asn Ser Trp Gly
 1 5 10 15
 Cys Lys Gly Arg Ile Ile Cys Tyr Thr Ser Ala Arg Trp His
 20 25 30
 10 <210> 70
 <211> 160
 <212> PRT
 <213> Human immunodeficiency virus type 1
 15 <400> 70
 Ala Ala Ile Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser
 1 5 10 15
 Thr Met Gly Ala Ala Ser Val Thr Leu Thr Val Gln Ala Arg Leu Leu
 20 25 30
 Leu Ser Gly Ile Val Gln Gln Gln Asn Asn Leu Leu Arg Ala Ile Glu
 35 40 45
 25 Ala Gln Gln His Met Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu
 50 55 60
 Gln Ala Arg Val Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu
 65 70 75 80
 30 Leu Gly Phe Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Thr Val
 85 90 95
 Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu Asp Asp Ile Trp Asn
 100 105 110
 35 Asn Met Thr Trp Met Gln Trp Glu Arg Glu Ile Asp Asn Tyr Thr Ser
 115 120 125
 40 Leu Ile Tyr Ser Leu Leu Glu Lys Ser Gln Thr Gln Gln Glu Lys Asn
 130 135 140
 Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp
 145 150 155 160